## Interagency Mechanical Operations Group Plans Information Exchange <br> Sandia Laboratory will host the

annual meeting of the Interagency Mechanical Operations Group Sept. 25-27. About 150 representatives of contractors in the AEC weapons complex are expected to attend the meeting, according to Ralph S. Wilson (7140), chairman of the IMOG steering committee. Purpose of the information said, is to help improve design. fabrication, and physical inspec tion of components and inspecblies. Ideas on all phases of development and production will be discussed.
Highlights of the three day meeting will include addresses by John S. Foster, Director of Lawrence Radiation Laboratory, on "The Future"; and George C. Dacey, Sandia Corporation Vice President, Research, on "Application of Optical Masers." Guests will take tours of clean room facilities in Bldg. 892, physical and electrical standards facilities in Bldg. 805, and environmental test facilities in Area III. In addition, Sandia-
will be displayed in the lobby of Theater Bldg. 815 during the meeting.
S. P. Schwartz, Sandia Corporation President, will open the conference. Mr. Wilson will be chair man of the first session. C. R Barncord (8150) will chair the af ternoon session on Sept. 26, and chairman of the last session be 27, which includes a tour of environmental test facilities.
Sandia Corporation speakers on the program include J. D. Gilson (8151), who will present "Computer Analysis of Gage Data"; B. E. Barker (8142), "Basic Problems in Describing, Gaging and Accepting Weapon Parts"; C. M. Potthoff (8151-2) who will discuss "DC to DC Displacement Gage Heads;" D. W. Ballard (2564), "Effects of Seismic Earth Vibrations on Machine Tool Performance"; and W. A. Gardner (7300), "Environmental Testing with Judgment."
Mr. Dacey will speak at a banquet for the conference delegates at the Coronado Club at 7 p.m., Sept. 26.
courage effective information exchange within the AEC complex on design, manufacturing, and inspection problems and the studies
leading to problem solution; study leading to problem solution; study trends and potential production advanced design may result from efforts; study and report the capabilities of and report the cainspection equipment and processes; and propose programs to resolve incompatibilities. Solutions may involve modifications of existing equipment and processes, or development of new techniques. Participating agencies include Sandia and Livermore Laboratories; Albuquerque Division, ACF Industries; The Bendix Corporation, Kansas City Division; General Electric Company, Hanford Atomic Products Operation; Los Alamos Scientific Laboratory; Mason \& Hanger-Silas Mason Co., Inc., Iowa Ordnance Plant and Pantex Ordnance Plant; Monsanto Research Corporation, Mound Laboratory; Union Carbide Nuclear Company, Y-12 Plant; and Lawrence Radiation Laboratory.

# sandia oorporation <br> lalo nevrs <br> albuquerque <br> livernore 

VOL. 14, NO. 19


SEPTEMBER 14, 1962

## R. J. Guerin to Head AMA Seminar

Robert J. Guerin, supervisor of Accounting Metinods section 41132, will serve as chairman of a Program Evaluation and Review Techniques (PERT) Seminar in Phoenix, Ariz., Sept. 25-26. The seminar is sponsored by the American Management Associa-
tion. Mr . Guerin will coordinate the seminar and will act as discussion leader. Six other speakers, prediscuss various aspects of the PERT/TIME technique, which concerns planning, scheduling, and programming.
The PERT system was originally developed for use by the U. S. cerns program evaluation and review, is used in conjunction with PERT/COST, an outgrowth of PERT/TIME which is used for cost and resource control. The two systems facilitate integrating such functions as research and development, purchasing, hiring, scheduling, and accounting.


NEW LOCKING DEVICE developed by Floyd D. Norcott and Ralph S. Fox (both 2533) is demonstrated by Justine Bassett (2530). The sliding bar at top of file cabinet eliminates use of one combination lock and saves
time. Manufacturer of cabinet has shown interest in incorporating idea.

## Sandia Employees Helping Plan Program for Materials Symposium

"Dynamic Behavior of Materials" is the title of a symposium to be held in Albuquerque Sept. 27-28. Sponsored jointly by the University of New Mexico and the Rocky Mountain District of the American Society for Testing and Materials, much of the symposium planning has been performed by Sandia Lab employees.
The symposium will present a review of recent advances in the measurement and interpretation of the mechanical behavior of both metallic and non-metallic solids under dynamic conditions, according to J. E. Smith (1113), program chairman.
R. W. Henderson, Sandia Corporation Vice President, Weapon Programs, will be the featured speaker at a dinner meeting at the New Mexico Union Sept. 27, at 7 p.m.
C. F. Bild, Director of Materials and Process Development, will be chairman of a technical session
Friday morning, Sept. 28.

Sandians presenting papers include J. H. Smith (1113), "The holds Low Pressure Spall Threspin, in Copper"; and W. J. Halham (all Jones, and R. A. Graend Techniau), "A SubmicrosecObservation of Input and Propagated Impact Stresses."
I. V. Williams, Head, Metallurgical Engineering Department, Murray Hill Laboratory, Bell Telephone Laboratories, will present the keynote address.
"An Investigation of Dynamic Mechanical Properties of Polyethylene" will be presented by Shiro Matsuka and C. J. Aloisio of Bell Telephone Laboratories.
Chairman of the two-day symposium is V. E. Arnold (1124). Members of the sympoisum committee include B. H. Anderson (1112), C. F. Bild (1100), N. J. DeLollis (1112), C. D. Lundergan (1113), R. E. Moll (1111), H. E. Montgomery (1113), and D. E.
Wanner (1122).

## Monday, Oct. 8, Is General Election Registration Deadline

The deadline is Oct. 8 for eligible voters to register for the forthcoming New Mexico general election. Registration blanks are available at the Bernalillo County Clerk's office in the courthouse at Democratic headquarters, 521 Central Ave.; at Republican headquarters, 110 1st St. SW; and at Sandia Laboratory from Services and Recreation Section 3122-2 in Bldg. 610.
Family Day Planned For Tonopah Test Range Wives and children of Tonopah Test Range employees will see range faciilties for the first time during Family Day activities Sept. 29 .

Employees will be hosts to visitors from 9 a.m. until 2 p.m. The rocket launch complex, control point, radar hill, Contraves theodolite, and tracking telescope will be some of the facilities on dis-
play. play.


HOPE, TRUST, AND CONFIDENCE show in the face of this little girl, receiving a post-surgery check at the Heart Association cardiac clinic.
(See story on Page Four)

## Bell Labs Dr. J. R. Pierce to Speak Before Two State Engineering Groups

Dr. John R. Pierce, who has been called "the father of Telstar," will speak at a joint dinner meeting of the Albuquerque-Los
Alamos Section of the Institute of Alamos Section of the Institute of New Mexico Section of therthern New Mexico Section of the American Institute of Electrical Engineers. The meeting is scheduled p.m. at the Robin Hood Inn. "Communications Satellites" will be the title of Di. Pierce's talk. He is Executive Director, Re-
search - Communications Principles and Communications Systems Divisions of Bell Telephone Laboratories. He is responsible for research in radio, electronics, acoustics and vision, mathematics, computers, group behavior, and communications systems.
At the Laboratories, Dr. Pierce has specialized in the development of high-frequency electron tubes, particularly traveling-wave tubes, and in microwave research. During World War II he concentrated on the development of electronic devices for military applications. He has been granted 80 patents for his inventions in electron tubes and communications circuits, especialle and mirrown, tues
1n54 Dr. Pis and In 1954 Dr. Pierce analyzed the

## Ardent Ham Radio Operator Joins <br> Ardent Ham Radio Operator Joins Exclusive Group of Award Winners

In ham radio circles, the Arne Trossman Award is the greatest honor.

John C. Kanode (7312) is the 17 th person in the world to receive the award. For him, it represents 10 years as a radio amateur and more than 80,000 certified contacts.
The award, issued by CQ magazine, includes a certificate and a plaque, which will be presented to him by Gov. Edwin Mechem.
John holds 250 other awards and certificates for his amateur radio achievements. To earn the awards, contacts must be made with other amateurs around the globe. Some countries can be contacted only after months of dial twisting and listening. After contact is made a QSL card is ex-

John's call letters are K5UYF.
He uses an Invader single sideband

of artificial satellite and in 1955, wo years before the first satellite, offered the first concrete proposals or satellite communications. Bell Laboratories space communications experiments are based on his riginal suggestions.
Reservations to attend the meeting should be made by contacting C. H. Schmidt, IRE social chair-
man, AL 6-0798.

-17 th in the world-
transmitter with a $40-\mathrm{ft}$. threeelement beam antenna. His receiver is a HQ170.

## Editorial Comment

## The Volunteer

Civilization is apparently of such a nature that the further we progress in it the more difficult we find it to live together Man is seeking at least a partial solution to this difficulty by cultivating a voluntary service-association with his neighbors, As society's complications multiply, the need increases for voluntary work among fellow men, for it is essential that ther be preserved a balance between complexity and conscience.
"The Volunteer in Our Society" was discussed recently in the monthly letter of the Royal Bank of Canada. The idea was advanced that the voluntary contribution made by individuals and groups is the real foundation of a democratic society, and it is one of the ways in which, in spite of mechanization and it is one of the ways in which,

The numerous Sandia employees who are included in this "volunteer" classification would be interested in the discussion of their place in society.

The "why" of working with others in a volunteer capacity is not important, according to the publication. The Talmudic principle is: "A man should perform a righteous deed, even if he does so only for ulterior motives, because he will thus learn to do the right for its own sake." Regardless of the reason for being a volunteer the end result is selt-fulfillment, which is on a higher plane than self-interest.

Whatever we do in our voluntary activities we should be heartily in earnest in the doing of it. This action, not something done of necessity to earn a living or maintain a status, we choose to do as a gesture of free will, as our contribution to society.

Why do we need so many volunteers? The answers are many. We must realize that in our large and complex society some people are going to get hurt through no fault of their own Multitudes of people need help, not because of fire, flood or war, but because of heredity, culture, and social environment Great burdens sometimes fall upon people who are no equipped either physically or mentally to carry them

So, what we ask of volunteers is not a compliant dealing with things as they are, but a positive, spirited investigation into what might be. Volunteers of today need to know the dif ference between what things are and what they should be. The valued volunteer is one who is not merely content to change as the world around him changes. He is one who wishes to be in the vanguard of a movement for improvement

Some of Sandia's volunteers may be surprised to note they are the foundation of democratic society. They may feel they are volunteers merely to get a change of pace from the work aday world. Perhaps they feel they are expressing themselves banishing the blues, or countering the tensions of perpetual world crisis.

Men and women have within them truths to communicate, skills to contribute, talents to share. Volunteer these and it helps make the world a better place to live.

For what do you volunteer?

## Congratulations

Mr. and Mrs. James A. Johnson on Aug. 15
Mr. and Mrs. C. J. Daniel (5132) a daughter, Mary Therese Josephine, on Aug. 29.
Mr. and Mrs. Flaviano Saavedra (4622) a daughter, Sarah Jean, on Aug. 23.
Mr. and Mrs. William E. Hall (4622) a daughter, Kay Linn, on Aug. 30.

## Albert Vinsant Former Employee

 Died Aug. 29Albert Vinsant, a retired Sandia Laboratory
He was 72.

Mr. Vinsant was a fireman at the steam plant at the time he re tired in December 1956. At the time of his death, Mr. Vinsant had resided in Albuquerque 22 years. Survivors include his widow, a ister, and two nephews.

Employees Urged To Get Polio Immunization

Sandia Corporation's Medical Director, as well as Public Health Officials throughout the country is distressed at apparent indiffer ence toward adequate polio immu nization. A recent survey conduct ed at a manufacturing plant re vealed that only 32 per cent of the most highly-susceptible age group 40 years and under) had receive surficient vaccine to give them even a small degree of protection against polio
Today, doctors have available two types of vaccine to protec against polio: The Salk vaccine which is given by injection, and the Sabin vaccine, which is taken by mouth. For adequate protec tion either vaccine must be give in its entire dose series which as follow
Salk Vaccination Schedule
First injection
Second injection about six
weeks later
Third injection about six weeks after second

Fourth injection six months or more after third
Sabin Vaccine Schedule
Since each type of oral polio vaccine can immunize a person against only one specific type polionirus, all then cine must be taken Second dose-Type III-six $\therefore$ eks later

Third dose - Type II - six weeks after second dose
(Sabin vaccine can produce ooster effect on patients pre viously immunized by Salk vaccine but only if all three types of the oral vaccine are taken.)
If you or members of your family have not been adequately im munized against polio, now is th time to consult your family physician or local health department.

## Linda Lee Burrow <br> Died Aug. 26

Funeral services were held Aug 30 for Linda Lee Burrow, service clerk in the Technical Illustration Mrs. Burrow Mrs. Burrow

died unexpect| died |
| :--- |
| edly |
| Aug. | while convalescing from injuries received in an automo in an autom Mrs. Burrow oined Sandia



Corporationdia ory in January 1960. Survivors in clude her parents, a son, a brothe and sister, and two grandparents.


OPERATION AND USE of all types of portable fire and Safety, Las Vegas, Nev., were recently invited to extinguishers are required of all Sandia personnel at Tonopah Test Range. Norman J. Kennedy, Ansul Chemical Co., Los Angeles, and Thayer Coon, American Fire
demonstrate correct usage of extinguishers. Long disances between Control Point and different installations make fire-fighting difficult at this Nevada test site.


SUPERVISED SCOUTS - Boys recall a Mexico camping trip lead by Dick Brian (center). L to R, David Dollahon (son of D. D. Dollahon, 4362); Pat Brian; Scout Leader Dick Brian (2633); Don Patterson (son of Myrtle,
2321; and Ken Patterson, 4132 ); and John Schneemann (son of H. T. Schneeman, 7212). A more extensive outing is planned for next year

## Dick Brian Helps Escort Scouts Into Wild Mexican Back Country

Keeping track of two teen-agers roaming the Juarez marketplace may seem like a hard job for many parents, but imagine the problems 13 adults had being rethe wilds of Mexico.
Dick Brian (2633)
the leaders and he's was one of bigger outing to Monterrey next year

The idea originated in 1961 when George Jarvis of LASL took eight scouts to Chihuahua. There was a two-day program in that city with 200 Mexican Scouts and Cub Scouts. The boy of the two nationalities go along fine.
This year the Scout Commissioner in Chihuahua asked for a There was an international encampment with 300 scouts from Chihuahua, Mexicali, Torreon, Monterrey, and small towns along Baja California. For the first time, the international scouting flag was flown in a Central American country-it had to be sent down from Canada for the occasion.
On the Fourth of July, color guards of both groups participated in the flag raising ceremony; then the boys shot off firecrack-ers-they're legal in Mexico.
"We chartered part of a Santa Fe Railroad train to get to El Paso, then rode from there on five chartered Mexican Greyhound buses, Dick recalled. After the ceremony at Chinuahua, they chartered a train to get to the , del 200 miles south of Chihua hua.
hua.
The canyon is about 6000 ft . deep," Dick said, "and is reached by goat trails. Friendly Indians rainy season so the weather was hot and humid, with haze much of the time.
Some of the Scouts were temporarily trapped on a sand bar on the opposite side of the Erique River, which flows through the canyon. After they had reached the sand bar, brief torrential rains raised the water level about four feet, covering the boulders they had previously used for stepping stones.
"The rescue operation, with use of ropes, took about six hours. It was one in the morning whe we got "he last boy ed "I was proud of the boys though. In the canyon no one panicked; they all seemed to know what to do." The boys ranged in age from 13 to 18 .
Scout Leader Brian is enth
siastic about such trips: "They create a better feeling of world brotherhood, and also combat any communistic traits among the younger boys in Mexico." He解有 praised Mexican national encountered on the trip. "They were more than good hosts; the out of their way to help Dick has been leader of Troop 166 for four years and previously headed the cub pack at Cortez chool for a year. He is a forme are Scouts.

## Supervisory Appointments

DONALD D. WAGNER to su
 8212-4 Personnel Division, Livermore Laboratory.
Don joined Sandia on July 1, 1957 in Albuquerque, where ployed in the job evaluation organization. He transferred to Livermore Laboratory in October 1959 where he has worked in wage administration.
A graduate of North Dakota State University, Don was award ed his BS degree in June 1957 He majored in industrial engineering, and minored in math.
Don served three years and our months with the Army during the Korean conflict.

CHARLESB. BATSEL to Buyer, 4315
During his five and one half years at tory, Charlie has worked within the Purchasing Organ ization 4300. He came to


Sandia right after graduation from the University of New Mex ico in February 1957. He holds a Bachelor of Business Adminis tration degree.
Charlie served four years in the Air Force during the Korean conflict. He was stationed thre years in the States and spent on ear in North Africa, performing

## sandia oorporation <br>  <br> albuquerque . livermore

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## Flames Break Out in Home And Surround Fire-Fighting Equipment

"I was in the den with my wife and daughter," Len E. Mahuron (3453) said, recalling the sunny winter afternoon nearly a year ago his home. "In our home, the den s the room nearest the garage."
It was a quiet afternoon. Len heard an unusual noise, and opened the garage door. "It took a moment for me to realize what was s, I saw that the garage was on fire, and realized that the fire was well underway, but I wasn't fully aware of the danger of the situation."
Len shut the garage door, then asked Mrs. Mahuron to call th fire department. Next, he attempt ed to use an extinguisher he'd in stalled the week before near the garage door.
"The heat was rugged," he recalled. "The extinguisher was so hot that I couldn't get it off its wall bracket. I thought of con necting the garden hose, but it was stored for the winter . . . in the garage. Then I remembered our automobiles. I got the keys - it probably took only a few seconds but it seemed uncomfortably long-er-and returned to the garage door.'
Len managed to save one car. "I took a terrific chance," he said But I was afraid the gas tank in the cars would go up, and that

## GED Tests to Be Given by University <br> Of New Mexico

The General Educational Development Test for the State High School Equivalency Certificate will be conducted at the University of New Mexico Oct. 3 and

In some instances, this certifi cate will suffice for the entrance examination at the University of New Mexico.
The test is comprised of five parts: Correctness and Effective ness of Expression; Interpretation of Reading Materials in Social Studies; Interpretation of Reading Materials in Natural Sciences; In terpretation of Literary Materials and General Mathematical Ability Two hours are allowed to com plete each part.
The examination will be given at the UNM Counseling and Testing Services Office from 8 a m. to noon and from 1-5 p.m.
Arrangements for taking the test must be made with W. H. Bailey (3132), ext. 47255, before Friday Sept. 21.
would spread the fire." By the time he'd gotten one car out and weturned to the garage, the flames to the other. Then he heard sirens.

The garage and automobile were a total loss, but the firemen were able to save the rest of the Mamobile.
"As it turned out, the neighbors had called the fire department," Len continued. "My wife had tried, but couldn find the right phone number to call.
The neighbors had seen the fire, evidently in its earliest stage, and had called the firemen. Their quick action brought the firemen in short order, and probably saved the rest of the house.
Looking back on the event, Len Mahuron can generalize about it with authority. He learned som important

I suppose I was as aware of the need for fire prevention - before the fire-as anyone else," he commented. "All of the recommended precautions are worthwhile. But you can't be too careful. For example, the extinguisher I'd taken the trouble to buy and install was unuseable."
He still has no idea how the fire started. "I'd taken a number of precautions. Somehow, it started anyway." The thing that Len recalls most vividly about the fire was its speed. Few people realize how rapidly it can spread, or how quickly it can destroy," he continued. We were fortunate that the it occurred in the afternoon. If it had hight, we might not during the night, we

Fire Prevention Week this year is Oct. 7-13. The publicity on fire prevention precautions which people will receive during that week will do a great deal of good. But awareness of the danger of fire and the necessity for its prevention is necessary the year around. ly aw Mahuron family is especialple, but highly-important, step toward fire prevention.
"On the first page of the city telephone directory are blank spaces for emergency telephone numbers," Len explains. "It takes only a minute to copy in the correct city fire department number, or if you live outside the city limits, the number of your district fire station. You may never need to call that number. But if the need for it should come-as it did And later, you'll be thankful for And later, you'll be thankful for
your foresight."

Bob Kelly Shoots Ace for Third Time In Golfing Career
There was a surprised foursome on the seventh hole at Los Altos
golf course this month. They golf course this month. They
waved on the players behind them and Bob Kelly (2641) promptly and Bob Kelly (2641) promptly scored a hole-in
astonished eyes.
Such accuracy never becomes commonplace, but this was the third hole-in-one Bob has hit in his golfing career. The first was in San Diego, Calif., when he was 13 years old; the second was about eight years ago at the Albuquerque Country Club course.
Bob was playing in the Sandia Laboratory Men's Golf League when he hit the ace. Other members of his foursome were L. C Guynes (3429/5000), Jack Reynolds (4343), and A. M. Schonberg (also 4343).
Bob used an eight iron for the 155 -yard hole. "I aimed for the hole, and from then on it was pure luck," he said.

## Arthur Russell to Retire from Sandia <br> On September 28

Arthur Russell of Design Definition section 4412-5 wilh retire sept. 28. He has been with Sandia
 Mr. Russell has been associated with Sandia's drafttion as drafting manual coordinator since he nator since he here. Prior to employed by the American Broach and Machine Co of Ann Arbor Mich., as a tool and machine de-

For the past three years, Mr Russell has taught evening courses at the School of Drafting Design at $82001 / 2$ Menaul NE. In addition, following his retirement, he plans to open the Coronado Technical Institute, a two-year training program for engineering technicians.
The Institute's curriculum is oriented to the needs of industry and will include courses in draft ing, geometry, mathematics, Eng lish grammar, materials and processes, process engineering, engineering standards, tool and gage esign, basic electricity and electronics, physics, engineering statics, dynamics, strul erials, structu speech.
We feel that the Institute wil fill the need for technical training school graduates," commented.


THIRTY ALBUQUERQUE TEACHERS toured Sandia Lab- the Chamber of Commerce. Dan M. Fenstermacher oratory last week as part of the annual Business (7224), left, explains Sandia's $24-\mathrm{in}$. telescope during
the group's tour of the East Mesa optical facilities.

## Herb Plagge Works for Community Betterment As Kiwanis Club Member

This is another in a series of articles describing the community activities of Laboratory employees.
Dedicated to community service, Kiwanis International is an organization of more than 5000 chapters and 300,000 members. In Albuquerque, five Kiwanis clubs are active. Herbert J. Plagg ins , president of one, Sandia Kiwanis, is a typical Kiwani worker

Our 65 members," Herb says, represent a wide cross section of Albuquerque, many viewpoints many occupations. This creates vitality and an enthusiasm tha sustains our many projects.
Activities of Kiwanis member range from providing eye examin ations and glasses for needy chil dren, through supporting church programs, to banquets and sos in volved in Hach of the projects. ved the special Kiwan bojects which has kept Herb busy is encouragment of high school students to enter the medical pro fession "We are not recruiting fu ture doctors," Herb says, "but we do provide an educational pro gram for students who have an interest in medicine. Three future doctors clubs have been formed in local high schools with a tota membership of about 120. Pro grams are arranged every two weeks and include such activitie as tours of hospitals, clinics, and laboratories as well as lectures by doctors.
"Once, the group performed eye operations on specimens obtaine from a local slaughter house. This was a tremendous educational ex perience.'
The fu

The future doctors clubs have been operating since 1958. The groups and now more than 300 fu ture dactors clubs have been for ed throughout the country
Herb hout the country
wanis youth programs other Ki

## Two AEC Officials Are Awarded Superior Performance Awards

Charles C. Campbell and John J. Burke recently received the Atomic Energy Commission's Superior Performance Award fo their services as Managers of maor field offices.
Mr. Campbell's citation refers to his leadership in sponsorin new management concepts and to his effective negotiation and administration of contractual agre ments at Sandia Laboratory. Mr . Campbell was Manager of the Sandia Area Office from 1958 until 1962. He served severa months as a Deputy to the Assist ant Manager for Admisuration in until his appointment in June 1962 to succeed Mr. Burke as Manager at Los Alamos.
Mr. Burke, Manager of the Los Alamos Area Office from March


Mr. Campbell Mr. Burke
to the AEC's Washington headquarters as a Special Assistant to the Assistant General Manager. He was cited for his outstanding achievements in the administration of major programs at Los Alamos and to his leadership in developing a program for the transfer of community ownership and operations from the government to the community


SOLAR FURNACE fascinated Albuquerque teachers last week during a Business-Education Day tour. At Sandia Lab, 30 teachers saw the Sphere testing facilities in Area III, and viewed "The Sandia Story" movie.

## Your ECP Dollars Go The Big Distance ...



SHARING their enthusiasm with R. E. Baack (2441), third from left, multiple sclerosis patients and young helpers prepare letters about

To give Sandians a clear picture of the good works accomplished by Employees' Contribution Plan funds, the LAB NEWS presents two more reports on the ney.

The following accounts describe visits to the New Mexico Heart Association and the New Mexico Central Chapter of the National Multiple Sclerosis Society. Recently, two Sandia employees visited these agencies, and saw firsthand the uses to which ECP funds are put.
Both agencies are doing a fine job, but there's a constant need for more support, so that they can continu.

## They are courageous, but they never get well <br> \section*{As told by R. E. Baack-2441}

Multiple sclerosis is a disease you don't get over. It has no known cause. There is, at present, no known cure. I learned these facts during a visit to the these facts during a visit to the the National Multiple Sclerosis the Nat
Society.
There should be known. MS sneaks its should be known. MS sneaks its way into your system without your knowing it. The first symptoms could be those of a dozen other diseases: numbness of certain areas of the body, blurred vision, dizziness, excessive faficult disease to diagnose.
MS is amazingly discriminate. It strikes those who have entered It strikes those who have entered the period of their greatest phy40 age group. During their most productive years, it attacks its victims.
The pathology of the disease limited to the control center of the body, apparently consists of deterioration of the whitish tissue called myelin, which sheathe the nerves of the brain and spi nal cord. It is believed that this myelin tissue acts as an insula-
tor for the fibers which carry the nerve impulses. Various MS symptoms indicate that a "shortcircuiting" or distortion occurs, preventing the nerve impulses from reaching the muscles which activate certain parts of the
body.
MS has a way of teasing its victims. Occasionally, the symp-
toms will disappear, only to recur at a later date. When they come back, they are often more severe, and as the disease progresses, it results in weakness, paralysis, double vision, loss of balysis, double vision, loss of balance, speech impairment, or other
disabilities. However, the remission of the symptoms is a process which is thought to hold a clue which is thought to hold a clue
to the nature of the disease. This thought is an ever-present hope to MS victims.
The battle against Multiple Sclerosis is far from won, but it is also far from hopeless. It's a quiet battle, being fought by researchers, physicians, therapists, and most enthusiastically, by patients.
At the New Mexico Central Chapter, located at 2837 San Mateo, N.E., Mrs. Lily Timmons, the executive director, told us

## Sondia Speakers

R. E. Marsh (2564), "A Comparison of Dust Count Data Obtained From Different Measuring Methods." American Society for Testing Material Symposium on Cleaning and Materials Processing for Electronics and Space Apparatus, Los Angeles, Calif., Sept. 30 Wlectromagnetic Radiation, "The Electromagnetic Radiation Environment," Second Environmental
Symposium (Ordnance), San AnSymposium (Ordnance)
tonio, Tex., Sept. 18-20.
G. L. Krieger (1413), "An Ionized Gas Jet Surface Cleaner,"

ASTM Symposium on Cleaning and Materials Processing for Electronics and Space Apparatus, Los Angeles, Calif., Oct. 1-5.
W. J. Whitfield
W. J. Whitfield (2564), "A New Principle for Airborne Contamination Control in Clean Rooms and Work Stations," American Society Francisco Material Meeting, San Francisco, Calif., Oct. 1-5. plications of Hybrid Computationto Field Problems," Computation to Field Problems," American InDenver, Colo., Aug. 28.


RECEIVES TOASTMASTER AWARD - J. Thee Wheelis (2543) recently received a certificate of merit from Toastmasters' International for completion of "basic training" in speech fundamentals. The 12-part program
required two years work. Thee is Sgt.-at-Arms of Toastmasters' 765 .
about the work of the local chapter, and showed us some of the activities of local patients. They're busy mailing out 20,000 letters about MS to people in Albuquerque and New Mexico. Other projects include physical and occupational therapy, and publication of a newsletter about MS patients.
They're very courageous people. From their cheerfulness and enthusiasm, you can tell that hope is very bright with them. They're far from defeated by the disease.
Funds come from contributions and other local support. About 40 per cent of this goes to the Naional Association for research. pome 60 per cent is retained for mation about MS, and administration.
After having toured the agency with Mrs. Timmons and having seen the fine work being done by the agency and by the MS paients, I realize that the New Mexico Chapter of the National Multiple Sclerosis Society deserves the support we can provide through the Employees' Contribution Plan.

## L. W. Gustafson <br> Retires Sept. 28

L. W. Gustafson will retire from Sandia Corporation Sept. 28. He has been with Traffic Section 4335-2 since he came to Sandia 11 years ago. Prior to his work at Sandia, he was associated with the Traffic Bureau here in Albuhuerque. He
querque. He as plans to continue traffic work af "I expect to get in some gia. nd take a short vacation," Mr Gustafson said. He also hopes to find time for visits with his son daughter, and two grandchildren

## Dick Siebenforcher

Uses 7 Years Practice As Dance Instructor
The Squared Circle Square Dance Club is inviting all interested couples to learn to square dhursdayser Thursday, sept. 20, at the Sandia Base ors is not required for par bership is not required for par ticipation in these classes. Anothe class begins Monday, Oct. 1, 7:30 Hall, Buena Vista Drive SE.
Dick Siebenforcher (4113-1) will
be the instructor and can be contacted at AL 6-7562 for details.
Dick is currently calling for the Dquared Circle Club, the Alohe Squares, and the Fiesteros Round Dance Club. He has been a square dance instructor since 1955.


RESULTS of heart X-ray are explained to a cardiac patient by physician during conference at cardiac clinic. New Mexico Heart Association
provides support for the clinic, for research, and for education.

## I saw volunteers hard at work

## As told by Frank Biggs, 5411

At the cardiac clinic sponsored by the New Mexico Heart Asso ciation, I saw children and adults with heart ailments receiving help provided for them through contributions by Sandians to the Employees' Contribution Plan.
Our tour was in two parts. First we spent a half hour with the director of the local Heart Association, Mrs. Estilene Walker, who told us of the work of the Association.
The Association is operated on contributions made by groups like the ECP members and by individuals. Part or the funs goesto the New Mexico Heart Assochation to the reserdiac clinic where it is used fo administration and supplies.
Some of the money goes to the
New Mexico Rehabilitation Center where it is used for therapy fo cardiac patients. Some is used for training of local physicians and surgeons by a nationally-known cardiologist, for a cardiac semina for nurses, and for a speakers' bu reau, films, and other educational devices.
Mrs. Walker mentioned that in general, the basic function of the
local office is to provide means to educate people about heart diseases, and to provide funds for research.
Later, we visited the cardiac clinic, and saw the diagnosis and treatment of patients with heart ailments. Many of them were children. One, a little girl, had under1955, and was visiting the doctor for a follow-up che waiting room. I saw a mother with a tiny infant, no more than a few a tiny infant, no more than a few
months old. I wondered if the child was receiving treatment. Heart disease doesn't respect a person's age or background.
Exams were being made by two doctors, both terribly busy, who nevertheless took time to answer our questions about their work. Mrs. Walker told me that they both volunteer their time and efforts to treat the clinic patients. Other workers also volunteer.
During the tour, I was aware that the funds contributed by Sandia employees through the Employees' Contribution Plan go a long way. I could see the good tributions. tributions.

## Sandian Plays Feature Role in State Fair Saga

Margaret Wetzel (3441) has a featured role in the historical pageant, "Saga in the Sun." The pageant commemorates New Mexi co's 50th year of statehood. Per formance will be at the State Fai coliseum tonight beginning at $8: 30$ Other Sandians in the cast clude Terrence $M$. Clark, Gail Ward, Richard K. Strome, Jame Smelich Ellen Jones (both 3446) and Cim Adams (4623)
Margaret Wetzel plays the role "Margaret Wister who a rough mining town to conduc religious services. She firmly take over the saloon, faces oppositio and danger, but triumphs over all except the mass excitement of gold strike.
Assisting backstage with cos tumes and makeup will be Ann Huddleston (3463) and Jean Burke (3441).
The pageant will be in the form of 21 scenes presenting colorful personalities in factual episode from pre-Spanish days to th present. Included will be a fiesta can-can, and hoedown

## Sympathy

To: and Sam Blaylock (both 4573) for the death of their mother in Los Lunas Aug. 30. Henry R. Aira (4621) for the death of his son Sept. 1
Donald Barack (4254) for the death of his father Aug. 19 in Detroit, Mich


Take a Memo, Please
In the language of the safety engineer the disabling injury frequency rate is the number of dis abling injuries per one million employee-hours of exposure.


SIGN AGREEMENT - Sandia Corporation and the International Guards
Union of America, Local 27, have negotiated an agreement providing Union of America, Local 27, have negotiated an agreement providing a $21 / 2$ per cent wage increase beginning Oct. 1. From left are Donald
R. Weldon (3222), Ernest C. Peterson (3220), David S. Tarbox, Director R. Weldon (3222), Ernest C. Peterson (3220), David S. Tarbox, Director
of Security and Industrial Relations 3200, Hugo Flores, Local 27 Business Agent, and Carl R. King, Local 27 President. Signing was Sept. 7

## Albuquerque Civil Defense to Offer Three Short Courses

Three special short courses are meet Saturdays, Oct. 13 and 20 , being offered by the Albuquerque Civil Defense Headquarters. In addition, CD is cooperating with the University of New Mexico Commu nity College in presenting Radia tion Effects of Nuclear Weapons
The short courses are Biological and Chemical Warfare, Radiologi cal Monitoring, and Decontamina ion.
Biological and Chemical War fare will be offered on Thursday evenings from 7 to 9 in Room 104, Mitchell Hall, UNM from Oct. ed biological and chemical weap ons will be discussed along with medical problems created by their use and methods of protection against them
Radiological Monitoring wil
meet Saturdays, Oct. 13 and 20 ,
at CD headquarters, 1120 Stover at CD headquarters, 1120 Stover
Ave. SW, from 8 to 12 noon and Ave. SW, from 8 to 12 noon and
from 1 to 4 p.m. The course will cover measurements of radiation and offer actual practice in the use of various types of radiation use of va
The Decontamination class will meet Thursday evenings, Nov. 8, 15, and 29, from 7 to 9 p.m. in
Room 104, Mitchell Hall, UNM. What to do Mhen there is UNM. ogical, biological or chemical con tamination of persons, food, build ings, vehicles, and land will be dis cussed.
To register, call CD headquarters, CH 7-9536. The Community College Rediation course costs $\$ 12$ and enrollment is by regular Community College procedures at UNM. The other courses are free.

SHOPPING CENTER
SHOPPING CENTER
SEPTEMBER 14, 1962
LAB NEWS

Welcome
Newcomers


Some 1500 employees are expected to begin Out-of-Hours classes Monday, Sept. 17, accordTraining Division and Trades ments, which began Aug, 15 , are still possible in most of the 70 courses offered in the program

Three general areas of study are Three general areas of study are Technical Institute level, and University level. All classes are job related and designed specifically for Sandia Lab employees.

Out-of-Hours booklets with complete course listings and enfrom Division 3132, Bldg. 813.

Fall YMCA Program Begins for Youngsters

The fall recreation program at the Central Branch of the YMCA began last week. Memberships and enrollments are still open, however, to participate in gym classes, swim courses, trampoline, tumball, and all types of games. ball, and all types of games. through high schol from ages 8 enroll Parents are invited to call the Central YMCA CH 3-5631, for further information.

## Local Magicians <br> Meet Tonight

Sandians interested in magic are invited to an open meeting of the Atomic City Mystics, a group of local magicians, to be held at 7:30 p.m. this

The Atomic City Mystics are af filiated with the Society of Ameri can Magicians. More information is available from willard A Sandia Bowlers Place
Third in Tournament
Five top Sandia bowlers teamed up recently to win third place in the Southern Alameda County Industrial Recreational Tournament in which 113 teams competed. Members of the team were Marilyn Larson (8243-4), team captain; Charlie Comito (8114-5) Powers (8212-3) (8213-2), Ruth owers (8212-3), and Gary Konop Tournamen
cournament play began in July Members of each team had to be
employed by the same company The group called themselve "Four Wrongs and a Right;" four of the team members are south paws. Theirs was the only Sandia team entered in the tournament.


Dorothy Mohart

## Meet Your Reporter

Dorothy Mohart (3131-2) is another of the Lab News' most active volunteer reporters. At Sandia for ten years, she's worked for the past two years in the University Education and Liaison Section, where she handles educational aids and technical development program enrollments. Previously, she worked for eight years in Manufacturing Development Organization 2500.
One of Dorothy's major hobbies is her two daughters and two grandchildren. "They occupy much of our thoughts," Dorothy commented. "They're a real joy to us." She spends some of her spare time playing an electric organ. "My husband and I also enjoy taking short trips during our vacations," she added. "But now we have a trip to Hawaii planned for the future.'

## SHOPPING CENTER

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## FOR SALE

 Herrmann,
AMEEE KITTENS, Purebred, no papers,
SIO ea. Schooley, Los Luñas $865-9371$ : LVER FOX FINIIH corfee toble ond two
lorge end tobes each with toble tomps,
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 GRL'S BICYCLES, 20 and 26 inch, $\$ 12.50$

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without metol stock rock. Welborn, TR
T. 2458 . $7-2458$
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HUUDON, $\$ 75$. Vigil, CH 2-2969. -BDR HoME, garage, built-in
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dropes, fenced, near schools, OWNERe, AX 8-1504.
 ASSORTED CERAMIC TILE, best offer.
Geilenteldt, AM $8-2886$. ${ }_{7-9268} \mathrm{CO}$. ${ }^{2}$ Coprice electric organ. Nelson, $T R$

 Wo CHESTS OF DRAWERS; 2 youn beds

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 RELOADING TOOLS for pistol and riflef
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 BoY's. $26{ }^{\prime \prime \prime}$ bicycle, new tires, $\$ 20$. Schnei-
der, $A X .-6243$.
 $\$ 75$ cash. need hunting and camping
equipment.
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 $11 / \frac{\text { ACRE }}{}$ LOT in choice residentiol ared
 ${ }^{\prime 57}$ FORD Custom 300 auto. transmission

 MTN. CABIN, sell or trade; '53 Plymouth,
recent engine overhoul. Kane, 299.0382 :


## DEADLINE

FOR SHOPPING CENTER ADS
Friday Noon, Sept. 21

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## ${ }_{3}$ Mssis

BASSINET; bathinette; buffet: bird coges;
basketboll net; racio-record
loyer com-
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S400. Nelson, AL $6-6300$. HOWEL BREAKAAST, SET, marbelized for-
 15 FIIEREGAS SPORT BOAT, 35 . HP mo-
tor troiler, ready for


 sic stand. Miziker, AL $5-4177$.
CHILRPEN'S BOOKS including 9

 2-5084. REFRIGERATOR, 9-cu.-ft. West-

 MAPLE TWIN BEDS, can be bunked, w/2
 AUDIO AMPLFIER, public address type in
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9.015
 HUNTING BOW, 40 -lb., recurved fiberglas,

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 BABY FURNTURE, crib, strollers, bathi-
 TWO-WHEEL
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 61 olds 88 .m. white eonn., 12,000 orig.
miles. Lopez, AX -4255 ., YOUTH BED w/metress, almost new, $\$ 30$.
Anoya, AL
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 55 PONTIAC, hydromatic, R\&H, w/w tires,
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gun or BLOND dropleof toble, $\$ 20 ; 4$ lond cop-

 WATER HEATER, 30 -gali, electric, Sears;
Counter topi, oloss lined tonk, $\$ 20$ :


300 SAVAGE, model 99, Weaver KV scope,
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guitar wlamplifier. Sandy, AX
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55 PLYMOUTH V - 8 , R8H. outo. Trans,
original Owner,
$\$ 295$.




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## WANTED

 WORLD Book enAcclopedio, complete set,good condition. MCNNely, AX $9-4232$. RIIEE vicinity of Corlisle and Smith. Hayes,
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6789 ofter 5 pm MODEL HO electric train set, must be in
good condition. Smith, AM 8 . 1228 .


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ping, $\$ 1000$. McFall, AX $8-1552$. LOST AND FOUND
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RUDY VINOVICH, Sandia Lab's top bowler, tells how to make spares and splits. Rudy bowled 193 high average game during last season

## Sandia's Top Bowler Advises

 Confidence and AttentionFor some 500 Sandians bowling in Sandia Laboratory leagues, summer's
Rudy Vinovich (2642), last year's top Sandia bowler (193 game average), was getting his arm in shape last week at the Coronado Club. Automatic pinspotters worked at top speed as he threw several strikes in aw. Then he missed one. Three pins stood.
"You have to make the spares," Rudy said. "Strikes are fine; shoot for them, but you have to make the spares to stay on top.'
Carefully Rudy surveyed the stand, then with perfect control, he put the ball right between the spread and took all three pins.
Most bowlers miss spares because of tension and carelessness," Rudy said. "Concentrate on what needs to be done, then relax, and let the physical motion take over."
Rudy continued talking on his favorite subject: how to bowl skillfully. "Bowling is fun," he said. "And it's more fun when you get good scores." Rudy has been bowling about three nights a week for the past 20 years. His collection of trophies, including national honors, numbered about 50 at last count.
He passed on the following hints to bowlers who want to improve their game:

1. Select the proper ball with holes close to the size of your fingers and thumb. The span, distance from the thumb to finger fit comfortably, not stretched or cramped.
2. A method to find your proper starting position, which eliminates either too-long or too-short stepping, is to stand with your heels at the foul line. Next, walk backwards as many steps as you take in your normal approach to throw. This is the proper distance for you.
3. Face the target, with feet pointed toward the pocket. Hold the ball about waist high, with thumb at the top, just slightly to the side. Think of the ball as a clock face. A right hander's thumb would be at 11 o'clock, a left hander's at 1 o'clock.
4. Take medium steps, not too fast. On the first step roll the ball out of the supporting hand and push slightly forward. Your arm becomes a pendulum with the elbow straight. If this is performed correctly, the ball will
have a natural spin, achieved without wrist twisting.
5. Release the ball with the thumb straight to the top and aimed right at the pocket. (I always aim for the five pin. Beginners should not try to be spot get and aim.)
6. If the ball does not drive toward the pocket, it means that you have pushed it too far out on the first step. If you're off balance, at the foul line, it indicates you are using too much speed. A good bowler keeps in balance and control at all times. On the first step, the ball is out only as far as his extended foot.
7. In shooting for spares, angle is most important. Always point your foot at the closest pin. Walk in a straight line toward the tarin a straight line toward the target at the angle you choose and
follow through the same way as when delivering a strike ball.
8. On single-pin spares, try to hit the pin dead center. Don't be satisfied with just knocking it down, but try to
9. Two pin spares, such as the -7 , and $6-10$ are common. These are tricky, because they seem so easy to make. The main pitfall is hitting the front pin too full, of ten resulting in missing the other one entirely. Too thin a hit will also slide the front pin across without even touching the remaining one. Let the ball do most of the work-go for the pocket between the two pins and the ball will strike both,
10. This holds for splits, too. Splits are difficult, but always use the ball when possible to
strike both pins. The wider the split, of course, the harder it is to make. The 7-9 can only be made by hitting the 9 so thinly that it slides across to take care of the 7. The $8-10$ is the same thing in reverse.
11. When you're confronted with wide splits straight across, it's wisest to shoot for one pin. Getting the spare is unlikely, and it's sometimes better to accept the open frame with a score of 9 than take the risk of missing both pins.
"Generally have confidence in your ability," Rudy advises. He points out that this is a tremendous help. "Concentrate and relax. Practice the fundamentals. And when you're having difficulty, don't hesitate to ask an experienced bowler for help. They love to give advice."


WINNING TECHNIQUE - Rudy Vinovich demonstrates bowling basics. He aims for target, holds ball high, thumb at 11 o'clock.


FIRST STEP - Rudy rolls ball out of supporting hand, takes medium sized step, ball not too far out


PENDULUM ARM - Rudy keeps elbow and wrist straight for a full swing at medium speed. At this point, physical motion takes over.


SMOOTH RELEASE - Ball is heading right into the pocket. Rudy has perfect control. He aims at five pin.

## Alaskan Vacation Is Lollapalooza 9166 Miles of Only Minor Problems

Don't mention Alaska to John Piri-at least not until he has sufficiently recovered from his recen 26-day, 9166 -mile drive to the northernmost state.
John (4232-2), his wife Dorothy, her mother Ruby Groll (3462) 13 and 6 , made the tri sons, ages 13 and 6 , made the trip this sum mer in a '55 Pontiac, pulling a 16 ft . trailer. Despite the $1200-\mathrm{mile}$ stretch of gravel road (traveled in both directions), the car and trailer survived in fine shape;
travelers now need a vacation.
Dorothy, keeper of the travel
$\log$ and thereby spokesman for the group, had this to say: "You have to really want to drive! John had to drive 12 hours some days and, except for about 500 miles, the Alaska Highway was dry and dusty. At least, above Edmonton it was daylight most of the time, but then it was hard to convince the children it was time to go to bed."
The hardy travelers passed through Yellowstone National Park, Glacier National Park, and Alberta, Bannf and Lake Louise in "Miberta, Canada, before picking up British Columbi Then through the Yukon to Tok Junction, Alas ka. From there the road is paved ka. Froirbanks, their destination On the return trip they made a 400-mile side trip off the Richardson Highway to visit Mount McKinley National Park and see the $20,320-\mathrm{ft}$. highest point in North America. At Anchorage they took the Glenn Highway to rejoin the Alaska Highway at Tok Junction. Traffic was heavy this summer in Alaska-they saw other cars at least every two hours.
Both governments maintain free campgrounds every 50-75 miles along the way. The Piri's stopped at these and frequently met the same travelers at other campgrounds. We felt sorry for people camping in tents," Dorothy said. The camps were all supplied with water-either hand pumps, nearby creeks, or rivers. Each had at least

## Sandia Laboratory Safety Record Falls After 28 Days

An accident last week spoiled Sandia Laboratory's safety record. As an employee unloded an eight-ft. aluminum cylinder from a fork lift onto a moveable steel table, he was unable to keep the table and fell onto his foot
fell onto his foot
the Medical Director treated by sent home to recover
At the time of the accident, Sandia Lab employees had worked 28 days or 980,000 employee-hours without a disabling injury. Last week's accident was the 14th since the first of the year.

Service Awards

olie cook shack in which four fam ilies could jointly use the huge wood stove and picnic tables.
Milepost 496.5 in British Columbia was a welcome spot Laird Hot Springs was one of the few spots along the way for bathing. "It looked like a jungle oasis," they reported
The Piri sons enjoyed the wide variety of wild life. They saw grizeating eating plant roots in knee-dee Are
Are they ready to go back? No, sir! "But we'd sure like to take da," they agree.

## J. L. Kay Gets Trophy For Winning Benefit

## Cross-Country Air Race

John L. Kay (4411) received a trophy recently for winning an air ace between several New Mexico communities. The race was spon sored by " 99 ," an internationa club for women pilots. His wif rene (4131) is a member and helped conduct the event.
Competitors had to fly from West Mesa airport to Belen, So corro, Grants, and return, and identify a marker at each of the points. There were handicaps for various types of planes. John covered the route in one hour, 28 min utes in his Beechcraft Bonanza. The race was conducted by the worner for scholarship fund.

## ECP Captains Chosen; <br> Drive Will Be Oct. 1-3

Captains for the 1962 Em ployees's Contribution Plan Fund Drive, to be held at Sandia Lab oratory Oct. 1-3, have been ap pointed. Their names and organizations follow
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R. T. DePew (1411)
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(C. C. Fornero (3153)
(D. R. Weldon (3222)
(W. W. Ives (3463)
(L. F. Parman (3421)
L. R. Neibel (4330)
(M. E. Grothe (4150)
(E. M. Hodges (7534-2)
(B. D. Neil (4212) (C. E. Runyan (4220) (D. A. Watt (4233)
K. H. Lloyd (4411-5
(J. H. Simmons (4513-2) (S. L. Johnson (4542) (L. R. Wilson (4574) (W. A. Otero (4624) (A. Blain (4614)
D. H. Anderson (5132)
A. Y. Pope (7130)
(T. L. Pace (7221)
(H. S. North (7241)
W. H. Cross (7311-2)

Sandia Corporation Albuquerque, New Mexico

